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TRANSACTIONS
OF THE
SCIENTIFIC & ASSOCIATION,
MERIDEN, CONN.

1884.

VOL. 1.

MERIDEN, CONN.
FRANCIS ATWATER, PRINTER.
1885.

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Reports of Secretary, Treasurer, and Librarian.

Proceedings for 1884.

Catalogue of the Phænogamous and Vascular Cryptogamous
Plants found growing in Meriden, Conn., from 1881 to 1883, by
Emily J. Leonard.

OFFICERS.

REV. J. H. CHAPIN, Ph. D.	-	-	-	PRESIDENT.
REV. J. T. PETTEE, A. M.	-	-	-	VICE-PRESIDENT.
CHAS. H. S. DAVIS, M. D.	-	-	-	SECRETARY.
ALBERT B. MATHER, A. M.	-	-	-	TREASURER.
ROBERT BOWMAN,	-	-	-	CURATOR AND LIBRARIAN.

DIRECTORS OF SECTIONS

Geology and Palæontology,	-	-	-	Rev. J. H. Chapin.
Astronomy,	-	-	-	Rev. J. T. Pettee.
Archæology and Ethnology,	-	-	-	Dr. C. H. S. Davis.
Anthropology,	-	-	-	M. A. Stone, A. M.
Biology,	-	-	-	Rev. A. H. Hall.
Microscopy,	-	-	-	F. J. Seidensticker.
Botany,	-	-	-	Mrs. H. H. Kendrick.
Zoology,	-	-	-	A. B. Mather, A. M.
Geography,	-	-	-	Miss Ida J. Hall.
Chemistry,	-	-	-	C. E. Skidgell and Miss Kate R. Kelsey.
Mechanics,	-	-	-	Henry S. Pratt, A. M.
Technology,	-	-	-	Rev. J. V. Garton.
Electrical Science,	-	-	-	Waldo L. Upson.
Entomology,	-	-	-	Henry Hirons.
Ichthyology.	-	-	-	E. B. Everitt.
Conchology,	-	-	-	Miss Ella Daniels.
Necrologist,	-	-	-	Rev. J. S. Breckenridge.

PUBLISHING COMMITTEE.

Mrs. H. H. Kendrick,	Chas. H. S. Davis, M. D.
Miss Kate R. Kelsey.	

REPORT OF SECRETARY.

The Association has now completed its fourth year. Beginning in 1880 with eleven members it now has a membership of one hundred and seventeen.

During the past year five gentlemen and five ladies were elected to membership, two members have resigned and one member has died.

The directors of the various sections have performed their work faithfully, and have presented at each alternate month a condensed report of the progress of investigation and research made during the previous month.

The public meetings have usually been well attended. During 1884, the following papers were read at the public meetings of the association:

FEBRUARY

Sound,	Dr. G. H. WILSON.
Stenography,	J. H. MABBETT.
Geological Ages,	Rev. J. H. CHAPIN.

APRIL.

Science on the Farm,	.	.	.	Prof. L. P. CHAMBERLAIN
Chemical Affinities,	.	.	.	CHAS. E. SKIDGELL.
Red Sunsets,	.	.	.	Rev. J. T. PETTEE.

JUNE.

Spectrum Analysis,	.	.	.	Prof. H. S. PRATT.
Myths,	.	.	.	Miss EMILY J. LEONARD.
Ghosts and Other Illusions and Delusions,	.	.	.	Dr. C. H. S. DAVIS.

OCTOBER.

Evolution,	.	.	.	Rev. J. S. BRECKENRIDGE.
Newspaper Printing,	.	.	.	J. H. MABBETT.
A Plant Parasite,	.	.	.	F. J. SEIDENSTICKER.

DECEMBER.

Lepidoptera,	.	.	.	HENRY HIRONS.
Evolution in the Light of the New Church,	.	.	.	E. B. EVERITT.
Description of Recent Geological Purchases,	.	.	.	Rev. J. H. CHAPIN.

During the summer an excursion was made to Little Falls, near Durham, and some very fine specimens of ichthyolites were obtained.

The September meeting of the Association was devoted to the memory of Miss Emily J. Leonard, who died in July. A memorial address was delivered by Dr. Chas. H. S. Davis, and papers on the life and character of Miss Leonard were read by Rev. J. T. Pettee, Mrs. J. T. Pettee, Mrs. H. H. Kendrick, and Mr. J. H. Mabbett, and remarks were made by Rev. J. H. Chapin.

The Association may well feel satisfied with its work during the past year, and it has established the fact that it is an educational force in the community, and represents, to a large extent, the intellectual life of this city. But there is yet need of developing a more thorough and practical interest in the work of the Association among the citizens.

It is hoped that the museum of the Association will be utilized by the pupils in our public schools, and by others interested in natural science.

CHAS. H. S. DAVIS,
Secretary.

REPORT OF TREASURER.

RECEIPTS.

Balance from 1883,	\$278 48
Received from dues,	33 00
	<hr/>
	\$311 48

EXPENDITURES.

For apparatus, specimens, etc.,	\$120 50
Current expenses,	38 00
Balance on hand,	152 98
	<hr/>
	\$311 48

A. B. MATHER,
Treasurer.

REPORT OF CURATOR AND LIBRARIAN.

I have to report the following additions to our Association during the year 1884:

One specimen of silver ore from St. Nicholas mine, Mexico.

Three specimens of copper ore.

Specimens of fossils, chiefly Brachiopoda, probably of Silurian age.

Specimen fossil leaf and shells, from Platt Cañon and Greeley, Colorado.

Specimen natural brick and porcelain or baked clay from Bad Lands, Dakota.

Specimen of actinolites.

Specimen of Schistose rock.

Some 150 specimens from line of Union Pacific railroad, purchased for the Association by Rev. J. H. Chapin.

Specimens of fossil fish from Middlefield, Conn.

Four volumes of Astronomical papers of The American Ephemeris.

Three volumes United States Geological Surveys.

One volume Geology of the Comstock Lode.

Transactions of Vassar Brothers' Institute, 1883-1884, Vol. 2.

Annual Report of the Board of Regents of the Smithsonian Institution, 1882.

Two volumes Government Atlas of the Comstock Lode and Washoe District.

ROBERT BOWMAN,
Curator and Librarian.

PROCEEDINGS. 1884.

JANUARY, 14, 1884.

Regular meeting of the Association, January 14, 1884. Mr. and Mrs. George M. Clark were elected members of the Association. Miss Mary Moses and Mr. Elmer Stannard were proposed for membership.

Voted. That the Treasurer prepare and have printed a form of notification to members in relation to unpaid dues.

Voted, That the Treasurer be instructed to procure a book for permanent records and to transfer the past records.

The following officers were then elected for the ensuing year:

President—Rev. J. H. CHAPIN.

Vice-President—Rev. J. T. PETTEE.

Secretary—Dr. C. H. S. DAVIS.

Treasurer—A. B. MATHER.

Curator and Librarian—ROBERT BOWMAN.

The committee on programme for the February meeting was continued, after reporting progress.

Voted, That the appointment of directors of sections be left to the three first officers of the Association.

Adjourned to meet Monday evening, February 11, 1884.

FEBRUARY 11, 1884.

Regular meeting of the Association, February 11, 1884. Miss Mary Moses and Mr. Elmer Stannard were elected members of the Association.

Mr. Lawrence B. Stevens was proposed for membership.

The report of the lecture committee was accepted and the committee discharged.

Messrs. Pettee, Barber and Miss Leonard were appointed a committee to collect information for the Ornithologists' Union.

Messrs. Pettee, Quested, and Miss Kelsey were appointed a committee on programme for the April meeting.

Adjourned to meet Monday evening, March 10, 1884.

March 10, 1884.

Regular meeting of the Association, Monday evening, March 10, 1884.

Lawrence B. Stevens was elected a member of the Association.

Committee on programme reported, and committee continued.

Voted, That the Association purchase the jet for the stereopticon procured by Dr. Chapin.

Adjourned to meet Monday evening, April 14, 1884.

April 14, 1884.

Regular meeting of the Association, Monday evening, April 14, 1884.

Voted, That Mrs. Kendrick be appointed one of the directors of the botanical section.

Voted, That Miss Leonard and Mrs. Kendrick be appointed a committee to procure books for preserving botanical specimens.

Miss Emma A. Warner was proposed for membership.

Adjourned to meet Monday evening, May 12, 1884.

May 12, 1884.

Regular meeting of the Association, Monday evening, May 12, 1884.

Miss Emma A. Warner was elected a member of the Association.

Mr. H. H. Kendrick was proposed for membership.

Committee on programme reported, and committee continued.

Voted, That the Secretary call for the reports of the directors of sections in their reverse order from the previous meeting.

Messrs. Chapin, Davis and Bowman were appointed a committee on excursion.

Adjourned to meet Monday evening, June 9, 1884.

June 9, 1884.

Regular meeting of the Association, June 9, 1884.

Mr. H. H. Kendrick was elected a member of the Association.

Rev. J. H. Breckenridge was proposed for membership.

The report of the committee on programme was accepted and the committee discharged.

Messrs. Garton, Catlin, and Miss Daniels were appointed committee on programme for the October meeting.

Adjourned to meet Monday evening, September 8, 1884.

JULY 21, 1884.

At a special meeting of the Association held at the residence of the President, Rev. J. H. Chapin, on the 21st day of July, 1884, for the purpose of taking some action in regard to the adoption of appropriate resolutions in relation to the death of their late associate, Miss Emily J. Leonard, the following members were present: Mrs. Kendrick, Mrs. Griswold, Mrs. Hayes, Miss Hattie Linsley, Messrs. Chapin, Pettee, Griswold, F. J. and F. R. Seidensticker, Hayes, Robinson and Bowman. The meeting was called to order by the President, who briefly stated the object of the meeting.

In the absence of the Secretary, Robert Bowman was appointed pro tem.

On motion of Mr. F. J. Seidensticker, a committee was appointed by the chair to draft suitable resolutions. Said committee consisted of Messrs. Pettee and F. J. Seidensticker, and Mrs. Kendrick, who presented the following resolutions, which were unanimously adopted:

WHEREAS, The botanist of this Association, Miss Emily J. Leonard, has been laid to rest beneath the wild flowers which she loved so well; therefore,
Resolved, That we recognize in Miss Leonard a woman of rare intellectual endowments, a fine classical scholar, a most devoted and enthusiastic student of nature, and a most faithful and laborious member of this Association.

Resolved, That in her favorite field of botanical research, in town or state, Miss Leonard had few superiors. Our own herbarium attests the accuracy of her botanical knowledge no less than her untiring industry, while the recognition of her personal discoveries by eminent botanists of this and other states, shows the appreciation of her collections abroad. And, now, that her last collection has been made, our fields and mountains will miss her familiar footsteps, our wild flowers will weep, and Flora herself mourn for her loved disciple.

Resolved, That as members of the Meriden Scientific Association, to which Miss Leonard was so devoted, and to whose exercises her carefully prepared papers contributed so much of knowledge and interest, if we may not hope to equal her in the richness and originality of contributions, we will endeavor to imitate her in her zeal and devotion to truth, and in the promptitude with which she responded to all the calls of the Association.

Resolved, That at the next meeting of the Association, Monday evening, Sept 8th, Dr. C. H. S. Davis be requested to present a sketch of the life and scientific labors of Miss Leonard; that other members be invited to speak *in memoriam*, and that the meeting itself be memorial with reference to her life and death.

SEPTEMBER 8, 1884.

Regular meeting of the Association, Monday evening, September 8, 1884.

Rev. J. H. Breckenridge was elected a member of the Association.

• Mrs. F. H. Dilloway was proposed for membership.

Voted, That the Association make an excursion to Little Falls, and that Messrs. Seidensticker and Bowman be appointed a committee to arrange for the excursion.

Adjourned to meet Monday evening, October 13, 1884.

NOVEMBER 10, 1884.

Regular meeting of the Association, Monday evening, November 10, 1884.

Committee on programme for the December meeting reported, and committee continued.

Voted, That the curator procure new shelves for the cabinet.

Adjourned to meet Monday evening, Dec. 8, 1884.

DECEMBER 8, 1884.

Regular meeting of the Association, Monday evening, December 8, 1884.

Miss Kate Burroughs was elected a member of the Association.

The following persons were proposed for membership: Eli C. Birdsey, Miss Hettie Lewis, Mr. and Mrs. L. L. Sawyer, Miss Sarah N. Benedict, Rev. Charles H. Everest, Mr. and Mrs. H. B. Allen, Jas. F. Allen, Miss Cara G. Allen.

Voted, That the committee on programme be discharged.

Voted, That Mr. Hirons be appointed director of the department of entomology.

Voted, That the Treasurer be authorized to pay Dr. Chapin's bill \$99.50, for the purchase of materials.

Messrs. Stone, Quested, and Miss Hattie Bradley were appointed committee on programme for the February meeting.

Adjourned to meet Monday evening, January 12, 1885.

Emily Josephine Leonard was born in Meriden, August 21, 1837, and died there July 16, 1884, in the 47th year of her age. The greater part of her life after 1853, was spent in teaching in public and private schools. She passed the Harvard examination for women, and was offered a professorship at Vassar College.

Miss Leonard was well read in Greek and Latin, also spoke French and German, and had a sufficient knowledge of Italian and Spanish to read in those languages. She assisted Professor Boches, of Harvard University, in the preparation of his French grammar, and translated from the French a History of Political Economy in Europe, by Jerome Adolphe Blanqui. Miss Leonard also assisted Mr. John J. Lalve, in the preparation of his Cyclo-pedia of Political Economy.

Miss Leonard was greatly interested in the subject of political economy, and accumulated a valuable library on the subject. An essay on "Money," read by her at a convention in Cleveland, Ohio, attracted a great deal of attention at the time, as did also a paper on "Political Economy," read at Portland, Maine, before the Woman's Congress in 1882.

In 1880, when the Scientific Association was formed, Miss Leonard was one of the earliest and most active members. One of her first papers read before the Association was on the "Definition of Botanical Terms." In February, 1880, she read a paper on "Pollen, and the Means by Which It is Distributed." In 1882, at the Darwin meeting of the Association, she read a paper on "Darwin's Observations and Experiments."

December 11, 1882, she read a paper on "Stomata and their Functions." June 11, 1883, she read a paper on "Dimorphous and Trimorphous Heterostyled Plants." She read at other meetings of the Association, papers on the "Nutrition of Plants," "Fertiliza-

tion of Plants," and in June, 1884, a paper on "Myths and Myth Makers."

The catalogue of plants contained in this volume was prepared with her usual thoroughness, and contains seven hundred and forty-nine* distinct species of plants found growing in Meriden. Miss Leonard was both earnest and painstaking in her work in this department of science, and was animated by a strong desire to add something to our knowledge of our native flora.

CATALOGUE
OF THE
PHÆNOGAMOUS AND VASCULAR
CRYPTOGAMOUS PLANTS,

FOUND GROWING IN MERIDEN, CONN.

(INCOMPLETED)

BY
EMILY J. LEONARD,

(DIRECTOR OF THE BOTANICAL DEPARTMENT OF THE MERIDEN
SCIENTIFIC ASSOCIATION.)

Published by the Meriden Scientific Association.

MERIDEN, CONN;
FRANCIS ATWATER, PRINTER.
1885.

SUMMARY OF SPECIES.

Polypetalous,	257
Monopetalous,	249
Apetalous,	82—588
Gymnosperms,	<u>4</u>
Exogens,	592
Endogens,	<u>121</u>
Phænogamous Plants,	713
Cryptogamous,	<u>36</u>
Total,	749

P R E F A C E.

This Catalogue, compiled by Miss EMILY J. LEONARD, is published by the Meriden Scientific Association as a tribute to her worth as a member of the society, and also as a recognition of her value as a botanist.

It is published as she left it, and notwithstanding its incompleteness, will doubtless prove valuable to those who will continue the work she has begun.

To the public, who have little knowledge, and less appreciation of a work of this kind, we would say that it represents at least five years of the constant labor of one woman, almost wholly unaided.

Miss LEONARD's death, at the beginning of the summer's work which was to have completed the catalogue, is a sufficient apology for any errors it may possibly contain. There are some plants catalogued which are not found in Gray, Torrey, or Wood, but as the compiler had access to other botanies, they are probably found in works with which we are not familiar.

The following plants were found in Meriden by Miss LEONARD, and are not mentioned in the "Catalogue of Flowering Plants growing within thirty miles of Yale College":—

Helianthemum corymbosum.

Stellaria pubera.

Vitis vulpina, v. *indivisa*, v. *bipinnata*.

Baptisia australis.

Spiræa lobata.

Agrimonia parviflora.

Lonicera grata.

Lonicera ciliata.

Coreopsis lanceolata.

Azalea arborescens.

Scutellaria saxatilis.

Lilium Catesbæi.

We, knowing the thoroughness of her methods, have no hesitancy in submitting this work to any fair criticism.

THE EDITORS.

MARCH 18, 1885.



SERIES I.

PHÆNOGAMOUS OR FLOWERING PLANTS.

CLASS I. DICOTYLEDONOUS OR EXOGENOUS PLANTS.

SUBCLASS I. ANGIOSPERMÆ.

DIVISION I. POLYPETALOUS EXOGENOUS PLANTS.

ORDER I. RANUNCULACEÆ.

1. CLEMATIS.

verticillaris. Woods near the Poor-house. 1882.
Virginiana. Common.

2. ANEMONE.

Virginiana. Common.
nemorosa. Common.

3. HEPATICA.

triloba. Common. On some plants the late leaves were acutely lobed.

4. THALICTRUM.

anemonioides. Common.
purpurascens. Common.
dioicum. Common.
Cornuti. Common.
clavatum.

5. RANUNCULUS.

abortivus. Common.
recurvatus. Common.

BULBOSUS. Common.

ACRIS. Common.

6. CALTHA.

palustris. Common.

7. COPTIS.

trifolia. Somewhat rare. Found in woods near the Glass Works.

8. AQUILEGIA.

Canadensis. East of Black Pond. Also, near Poor-house, etc.

9. DELPHINIUM.

CONSOLIDA. Sparingly escaped from gardens.

10. ACTÆA.

rubra. Not rare.

rubra. Near reservoir.

11. CIMICIFUGA.

racemosa. Not common.

Order 2. MAGNOLIACEÆ.

1. LIRIODENDRON.

Tulipifera.

Order 3. MENISPERMACEÆ.

1. MENISPERMUM.

Canadense. Road up West Peak. Also, East of Black Pond.

Order 4. BERBERIDACEÆ.

1. BERBERIS.

VULGARIS Sparingly found on the mountains.

2. CAULOPHYLLUM.

thalictroides. South Meriden. May 16, 1883.

Order 5. NYMPHÆACEÆ.

1. NYMPHÆA.

odorata.

2. NUPHAR.

advena. Common.

Order 6. SARRACENIACEÆ.

1. SARRACENIA.

purpurea. South of Black Pond. In bloom June 3, 1883.

Order 7. PAPAVERACEÆ.

1. ARGEMONE.

MEXICANA. Sparingly escaped from gardens.

2. CHELIDONIUM.

MAJUS.

3. SANGUINARIA.

Canadensis.

Order 8. FUMARIACEÆ.

1. DICENTRA.

Cucullaria. Cathole Pass. Northwest of Park. East Mountain, etc.

2. CORYDALIS.

glauca. On rocks Southeast of Black Pond. Also, on West Peak.

3. ADLUMIA.

cirrrosa. Cathole Pass.

4. FUMARIA.

OFFICINALIS. Escaped from old gardens.

Order 9. CRUCIFERÆ.

1. NASTURTIUM.

OFFICINALE.

palustre.

ARMORACIA. Ditch opposite Mr. S. Cone's, East Meriden.

2. DENTARIA.

diphylla. East of Black Pond, Spruce Glen. and elsewhere. Common.

3. CARDAMINE.

rhomboidea. West of Trotting Park. Also, near Bradley & Hubbard's.

4. ARABIS.

lyrata. Rocks Southeast of Black Pond. Also, on West Peak. June, 1883.

Canadensis. Mountain side, path to West Peak. June 21, 1883.

laevigata. Mountain side, path to West Peak. June 21, 1883.

5. BARBAREA.

vulgaria. Stem leaves sagittate clasping. May 28, 1882. South Meriden.

6. ERYSIMUM.

cheiranthoides. Found in an overgrown path on the Lawrence Place, Aug. 8, 1883.

7. SISYMBRIUM.

OFFICINALE. Common.

8. BRASSICA.

oleracea. Tall form with small leaves. Open field on Pleasant street.
May, 1883.

SINAPISTRUM.

NIGRA.

CAMPESTRIS.

9. CAPSELLA.

BURSA-PASTORIS. Common.

10. LEPIDIUM.

Virginicum. Very common.

intermedium. 1881.

11. RAPHANUS.

RAPHANISTRUM.

SATIVUS.

Order 10. VIOLACEÆ.

1. VIOLA.

lanceolata. Rare.

blanda. Common.

anculata. Common.

var. palmata.

var. cordata.

sagittata.

var. ovata.

pedata.

rostrata. Spur $\frac{1}{2}$ inch long, measured from beneath. Woods Northwest of Trotting Park. May 10, 1883.

canina. Common.

Muhlenbergii, Torr.

pubescens.

TRICOLOR. Escaped from gardens.

Order 11. CISTACEÆ.

1. LECHEA.

major.

minor, var. gracilis. East Meriden. September 2, 1882.

Novæ-Cæsareæ.

2. HELIANTHEMUM.

corymbosum.

Canadense.

Order 12. DROSERACEÆ.

1. DROSERA.

rotundifolia. Mrs. N. M. Leonard's, East Meriden. July 30, 1882.

(To this plant Darwin devotes 277 pages of his work on Insectivorous Plants.)

Order 13. HYPERICACEÆ.

1. HYPERICUM.

PERFORATUM. Common.

corymbosum. Common.

mutilum. Rather common in low grounds. Near Black Pond.

Canadense.

Sarothra. Open field North of Mr. James Breckenridge's, on Pleasant street.

2. ELODES.

Virginica. October 4, 1881, in fruit.

Order 14. CARYOPHYLLACEÆ.

1. DIANTHUS.

ARMERIA.

2. SAPONARIA.

OFFICINALIS. Common by roadsides near old places.
inflata.*

3. SILENE.

antirrhina.
NOCTIFLORA.

4. LYCHNIS.

GITHAGO.

5. STELLARIA.

MEDIA. Common.
longifolia.
pubera.

6. HOLOSTEUM.

UMBELLATUM.

7. CERASTIUM.

VULGATUM. Common.

8. SPERGULARIA.

rubra.

9. SPERGULA.

ARVENSIS.

10. SCLERANTHUS.

ANNUUS. Roadsides. September 16, 1881.

11. MOLLUGO.

verticillata. Common near sidewalks.

Order 15. PORTULACACEÆ.

1. PORTULACA.

OLERACEA. Very common.

*Not catalogued by Gray, Torrey, or Wood.—EDITORS.

2. CLAYTONIA.

Virginica.
Caroliniana.

Order 16. MALVACEÆ.

1. MALVA.

ROTUNDIFOLIA.
MOSCHATA. Escaped from gardens.

2. HIBISCUS.

TRIONUM. Escaped from gardens.

Order 17. TILIACEÆ.

1. TILIA.

Americana.

Order 18. LINACEÆ.

1. LINUM.

USITATISSIMUM.

Order 19. GERANIACEÆ.

1. GERANIUM.

maculatum. Common.

var. alba.* Single plant found in East Meriden in 1881. Reported
also, as found in 1880.

Robertianum. Found on the mountains, near the base.

2. IMPATIENS.

fulva. Common by brooksides.
pallida.

3. OXALIS.

stricta. Common.

Order 20. RUTACEÆ.

1. ZANTHOXYLUM.

Americanum. Rather rare.

*Not catalogued by Gray, Torrey, or Wood. Probably named by Miss Leonard.—EDITORS.

Order 21. ANACARDIACEÆ.

1. RHUS.

typhina.
glabra.
copallina.
venenata.
Toxicodendron.

Order 22. VITACEÆ.

1. VITIS.

Labrusca. June 12, 1881.
æstivalis.
cordifolia.
vulpina.
indivisa.
bipinnata.

2. AMPELOPSIS.

quinquefolia. Common.
trifolia.* Common. Rarely more than 2 feet in height.

Order 23. RHAMNACEÆ.

1. CEANOTHUS.

Americanus. Common on the mountains.

Order 24. CELASTRACEÆ.

1. CELASTRUS.

scandens.

Order 25. SAPINDACEÆ.

1. STAPHYLEA.

trifolia. Ascent to West Peak. June 23, 1883.

2. ÆSCULUS.

HIPPOCASTANUM.

*Not catalogued by Gray, Torrey, or Wood.—EDITORS.

3. ACER.

Pennsylvanicum.

spicatum.

saccharinum. May 9, 1883. Common.

dasycarpum. April 20, 1883. Common.

rubrum. April 23, 1883. Common.

Order 26. POLYGALACEÆ.

1. POLYGALA.

sanguinea. East Meriden. September 2, 1882.

Nuttallii.

verticillata. August, 1883. September, 1881. Common.

polygama.

paucifolia. South Meriden woods. May 30, 1882.

Order 27. LEGUMINOSÆ.

1. LUPINUS.

perennia.

2. CROTALARIA.

sagittalis.

3. TRIFOLIUM.

ARVENSE. Common.

PRATENSE. Common.

MEDIUM. Near Mr. James Breckenridge's, Pleasant street.

repens. Common.

var. **roseum.*** Rare.

AGRARIUM. Common.

PROCUMBENS. Common.

4. MELILOTUS.

OFFICINALIS.

ALBA.

5. ROBINIA.

Pseudacacia.

viscosa. Willow Hill. South side of road. near foot of hill.

*Not catalogued by Gray, Torrey, or Wood.—EDITORS.

6. DESMODIUM.

rotundifolium.

Dillenii. In flower and fruit, September 4, 1882. East Meriden.

Canadense. Road to Yalesville. July 31, 1883. Woods South of city.
August 13, 1883, 2 feet high; flowers deep crimson. $\frac{1}{4}$ — $\frac{1}{2}$ in.
long. Racemes, glandular hairy. Leaves with strongly
reticulated veins, very hairy beneath.

acuminatum. 1882. Woods South of Pleasant street.

7. LESPEDEZA.

procumbens. East Meriden. August 20, and September 2, 1882.

hirta. East Meriden. August 20, and September 2, 1882.

violacea. var. *DIVERGENS*.

capitata. Southwest of Old Ladies' Home, South Crown street.

8. APIOS.

tuberosa.

9. PHASEOLUS.

perennis.

10. CLITORIA.

Mariana. Found on the ascent to West Peak.

11. AMPHICARPÆA.

monoica. Common. August 6, 1881

12. BAPTISIA.

tinctoria.

australis. Apparently, though in very early bud. West of the wall West
of Trotting Park. May 29, 1883.

13. CASSIA.

Marilandica. Bed of old pond. East Meriden. August 7. 1882

Chamæcrista.

nictitans.

14. GLEDITSCHIA.

triacanthos.

15. SAROTHAMNUS.

scoparius. By roadside, near old John Slain place. Said to have been
introduced from Ireland some 20 or more years ago.

Order 28. ROSACEÆ.

1. PRUNUS.

Americana.
spinosa.
Pennsylvanica.
Virginiana.
serotina.

2. SPIRÆA.

salicifolia.
tomentosa.
lobata.

3. AGRIMONIA.

Eupatoria.
parviflora.

4. GEUM.

rivale.
album.

5. POTENTILLA.

Norvegica. Common.
Canadensis. Common
argentea. Rather common. West Peak. June 23, 1883.
arguta. Not rare.
tridentata.

6. FRAGARIA.

vesca.
Virginiana.

7. RUBUS.

odoratus. On the mountains.
triflorus. South of old Charles Paddock place. May 23, 1882.
strigosus.
occidentalis. June 1, 1881.
villosus.
Canadensis.
hispidus.
cuneifolius.

8. ROSA.

RUBIGINOSA.
lucida.
MICRANTHA. Rare.
Carolina.

9. CRATÆGUS.

coccinea.
Oxyacantha.
tomentosa.

10. PYRUS.

arbutifolia.
Americana.

11. AMELANCHIER.

Canadensis.

Order 29. SAXIFRAGACEÆ.

1. RIBES.

Cynosbati.
hirtellum.
floridum.
aureum.
lacustre.
rubrum. Near the mountain.

2. PARNASSIA.

Caroliniana. Swamp in East part of town. Petals four times the length of sepals.

3. SAXIFRAGA.

Virginiana. One capsule had 3 carpels; was three-beaked.
Pennsylvanica. A variety found in Kensington had dark pink flowers, and light salmon colored anthers. Very pretty.

4. MITELLA.

diphylla. Cathole Pass. May 21, 1882.

5. TIARELLA.

cordifolia. East Mountain.

6. CHRYSOSPLENIUM.

Americanum. West side of Middletown road, near mountain.

Order 30. CRASSULACEÆ.

1. PENTHORUM.

sedoides. Common.

2. SEDUM.

TELEPHIUM.

Order 31. HAMAMELACEÆ.

1. HAMAMELIS.

Virginica.

Order 32. ONAGRACEÆ.

1. CIRCÆA.

Lutetiana.

2. EPILOBIUM.

angustifolium. East of Black Pond. August 6, 1882.

palustre.

coloratum.

Also, a white variety with large ovate-lanceolate leaves.

3. GENOTHERA.

biennia. Common. Also, variety *muricata*.

pumila. Frequent in marshy land.

4. LUDWIGIA.

palustris.

alternifolia. Swamp in East Meriden.

Order 33. MELASTOMACEÆ.

1. RHEXIA.

Virginica. Hairs on ovary and margin to stem, glandular.

Order 34. LYTHRACEÆ.

1. LYTHRUM.

alatum.

Order 35. CUCURBITACEÆ.

1. SICYOS.

angulatus.

Order 36. UMBELLIFERÆ.

1. HYDROCOTYLE.

Americana.

2. SANICULA.

Canadensis.
Marilandica.

3. DAUCUS.

CAROTA.

4. PASTINACA.

SATIVA.

5. ARCHANGELICA.

hirsuta.
atropurpurea.

6. THASPIUM.

• aureum.

7. CICUTA.

maculata.

8. SIUM.

lineare. East of Black Pond, where the water had receded in dry weather.
LATIFOLIUM. Near Black Pond.

9. CRYPTOTÆNIA.

Canadensis.

10. OSMORRHIZA.

longistylis.
brevistylis.

11. CONIUM.

MACULATUM.

Order 37. ARALIACEÆ.

I. ARALIA.

racemosa. Southwest part of town.
nudicaulis. Rather common.
trifolia. Common.

Order 38. CORNACEÆ.

1. CORNUS.

Canadensis. Southeast of Black Pond.

florida. Common.

sericea.

stolonifera.

paniculata.

alternifolia.

2. NYSSA.

multiflora.

DIVISION II. MONOPETALOUS EXOGENOUS PLANTS.

Order 39. CAPRIFOLIACEÆ.

1. LONICERA.

sempervirens.

grata.

parviflora.

ciliata. East Meriden. May 4, 1884. Catholic Pass.

2. DIERVILLA.

trifida.

3. TRIOSTEUM.

perfoliatum. Not common.

4. SAMBUCUS.

Canadensis. Common.

5. VIBURNUM.

Lentago.

acerifolium.

nudum.

dentatum.

lantanoïdes.

prunifolium.

Order 40. RUBIACEÆ.

1. GALIUM.

Aparine.

asprellum.

trifidum.

triflorum.

pilosum.

circæzans.

2. CEPHALANTHUS.

occidentalis.

3. MITCHELLA.

repens.

4. HOUSTONIA.

cærulea.

Order 41. DIPSACEÆ.

1. DIPSACUS.

SYLVESTRIS.

Order 42. COMPOSITÆ.

1. VERNONIA.

Noveboracensis. Common.

2. LIATRIS.

scariosa.

3. EUPATORIUM.

purpureum. Common.

maculatum.

perfoliatum. Common.

ageratoides. Rare. Reddish purple stem and leaf veins. Leaves broad cordate, acuminate.

4. TUSSILAGO.

FARFARA.

5. SERICOCARPUS.

conyzoides.

solidagineus.

6. ASTER.

corymbosus. Stems dark reddish purple. Common.

macrophyllus. Rays 10 or more. Common.

lævis. Rays light purple—not blue.

var. *cyaneus.*

undulatus. Common.

cordifolius. Also, var. light sky blue. with margined petioles. October, 1881.

dumosus. September 6, 1882. City.

Tradescanti. September 25, 1882. Common.

simplex. October 7, 1882.

puniceus. September 2, 1882. Also, October 3. East Meriden.

Novæ-Angliæ.

multiflorus.

7. ERIGERON.

Canadense.

annuum.

strigosum.

bellidifolium. Flowers, pale lilac. The first aster to bloom. May 23, 1882.
Philadelphicum.

8. DIPLOPAPPUS.

amygdalinus. Pappus all thickened at the tip, and yellowish white. No shorter outer pappus discoverable.

cornifolius. Found no shorter outer pappus.

umbellatus.

9. SOLIDAGO.

bicolor. Common; 7 or 8 rays. August 28, 1881.

latifolia.

cæsia. September 2, 1882.

stricta. August 12, 1882.

sempervirens. August 13, 1882.

patula. September 2, 1882.

arguta. August 20, 1883

Muhlenbergii. September 2, 1882.

altissima. Common.

var. **rugosa.** Common.

odora. Reported by Mrs. Davis. Not seen by compiler of catalogue.

nemoralis. September 10, 1882.

Canadensis. var. **scabra.** August 28, 1881.

serotina. August 13, 1882; August 19, 1883.

lanceolata.

squarrosa.

neglecta.

10. INULA.

HELENIUM. North of Black Pond. Upper leaves somewhat cordate, ovate, dentate, blunt pointed. Rays 50 or more. August 13, 1882

11. AMBROSIA.

artemisiæfolia. Very common.

trifida. Leaves mostly five-lobed. Veteran street, near Main. Sept. 8, 1882.

12. RUDBECKIA.

hirta.

laciniata.

13. HELIANTHUS.

strumosus. Also, a variety with leaves tapering to the base. Aug. 13, 1882.

divaricatus. Rays hardly an inch long.

decapetalus.

ANNUUS. Sparingly escaped from gardens.

14. COREOPSIS.

lanceolata.

15. BIDENS.

cernua. One foot or more in height. Stem rough, with crooked hairs.
Black Pond. October 4, 1881.

frondosa.

chrysanthemoides. Had three or four awns. Black Pond. Oct. 4, 1881.

conata.

16. MARUTA.

COTULA. Common by roadsides.

17. ACHILLEA.

Millefolium. Common.

18. LEUCANTHEMUM.

VULGARE. Common.

19. TANACETUM.

VULGARE. By roadsides.

20. ARTEMISIA.

VULGARIS. Waste places, near dwellings.

21. GNAPHALIUM.

decurrens. Hillsides.

polycephalum. September 3, 1882.

purpureum.

uliginosum. Ditches. Common.

22. ANTENNARIA.

margaritacea. Achenia reddish brown. Half-line or less in length. Common.

plantaginifolia. Common. East of Black Pond. April 30, 1883.

23. SENECIO.

aureus. Common. Southeast part of town. June 4, 1881

24. CENTAUREA.

NIGRA.

CYANUS.

*arvense.**

*Not catalogued by Gray, Torrey, or Wood.—EDITORS.

25. ERECHTHITES.

hieracifolia. September 2, 1882.

26. CIRSIUM.

LANCEOLATUM.

muticum. October 3.

ARVENSE. July 4, 1881.

var. *album*.* Near Veteran street. August 20, 1883. Very fragrant. Leaves dark green, glossy, very wavy, spinous. Flowers very small. Heads about one-half to three-fourths in. in diameter.

Virginianum. Found in woods.

27. LAPPULA.

OFFICINALIS.

var. *MAJOR*. Common by roadsides. Varies in color of flower, from white to pink, dark crimson and variegated. Flowers beautiful.

28. CICHORIUM.

INTYBUS. Roadsides. Rare. July 5, 1882.

29. KRIGIA.

Virginica. West Peak. Scapes hollow. June 21, 1883.

30. LEONTODON.

AUTUMNALE. Meadow on Pleasant street. August 21, 1883.

31. HIERACIUM.

Canadense. September 3, 1882.

scabrum. Rays 19. Disk flowers; 42 on a specimen examined.

venosum. June 28, 1882.

32. NABALUS.

albus. East Meriden. August 29, 1881.

altissimus.

33. TARAXACUM.

Dens-leonis. Common—very.

*Not catalogued by Gray, Torrey, or Wood.—EDITORS.

34. LACTUCA.

Canadensis. August 13, 1882.

var. **integrifolia.** August 13, 1882.

var. **elongata.** August 13, 1882.

var. **sanguinea.** August 13, 1882.

35. SONCHUS.

ARVENSIS.

OLERACEUS. August 5, 1882. East Meriden.

Order 43. LOBELIACEÆ.

1. LOBELIA.

cardinalis.

syphilitica.

inflata.

spicata.

Order. 44. CAMPANULACEÆ.

1. CAMPANULA.

Americana.

rotundifolia. Mountain side, Southeast of Black Pond. One specimen had 26 flowers, and the two double flowers. (October 5, 1881. Found, also, August 20, 1883.) The round base leaves had disappeared from all but one specimen, leaving none but linear leaves.

sparinoides. Wet meadows. 1882.

2. SPECULARIA.

perfoliata.

Order 45. ERICACEÆ.

1. GAYLUSSACIA.

resinosa.

dumosa.

2. VACCINIUM.

vacillans.

corymbosum. var. **pallidum.** East Meriden. May 25, 1881.

macrocarpon.

3. ARCTOSTAPHYLOS.

Uva-ursi.

4. EPIGÆA.

repens. Spruce Glen.

5. GAULTHERIA.

procumbens.

6. CASSANDRA.

calyculata. Near Black Pond. May 1, 1884.

7. ANDROMEDA.

ligustrina. East Meriden. July 16, 1882.

8. CLETHRA.

alnifolia. Common.

9. KALMIA.

latifolia.

angustifolia.

10. AZALEA.

viscosa.

arborescens.

nudiflora. Common. June 1, 1883.

11. PYROLA.

rotundifolia. Frequent.

elliptica. Rare.

12. CHIMAPHILA.

umbellata.

maculata.

13. MONOTROPA.

uniflora. Not rare. July 16, 1883.

Hypopitys.

Order 46. AQUIFOLIACEÆ.

1. ILEX.

verticillata. Common. July 2, 1883.

2. NEMOPANTHES.

Canadensis. (Found by Mrs. Knapp. Possibly not within the limits of Meriden.)

Order 47. PLANTAGINACEÆ.

1. PLANTAGO.

LANCEOLATA.

MAJOR.

Order 48. PRIMULACEÆ.

1. TRIENTALIS.

Americana. Southeast of Black Pond. June 3, 1883.

2. LYSIMACHIA.

stricta. August 5, 1882. Not common.

quadrifolia. var. with two upper whorls in 4's, others in 2's. Var. in 4's, 5's, 6's and 7's. August 7, 1882. Common.

ciliata. Common. July 23, 1881.

NUMMULARIA. Escaped probably from cultivation.

Order 49. LENTIBULACEÆ.

1. UTRICULARIA.

vulgaris.

clandestina.

Order 50. BIGNONIACEÆ.

1. TECOMA.

radicans.

Order 51. OROBANCHACEÆ.

1. APHYLLON.

uniflorum. June 8, 1883.

Order 52. SCROPHULARIACEÆ.

1. VERBASCUM.

THAPSUS. Common.

BLATTARIA. Rare.

2. LINARIA.

Canadensis.

VULGARIS.

3. SCROPHULARIA.

nodosa. Woods South of Pleasant street August, 1883.

4. CHELONE.

glabra. Common. August, 1883.

5. MIMULUS.

ringens. Common.

alatus.

6. GRATIOLA.

Virginiana.

7. VERONICA.

Anagallis.
officinalis.
serpyllifolia.

8. GERARDIA.

tenuifolia. East Meriden. September 9, 1881.
flava. Road to Yalesville.
quercifolia. Near base of mountain. East shore of Black Pond.
linifolia.* Common.

9. CASTILLEIA.

coccinea. East Meriden.

10. MELAMPYRUM.

Americanum. Common.

11. PEDICULARIS.

Canadensis. Common.
lanceolata.

Order 53. ACANTHACEÆ.

1. DIANTHERA.

Americana. Near Black Pond. October, 1881.

Order 54. VERBENACEÆ.

1. VERBENA.

angustifolia. Yalesville, 1883.
hastata. Common.
urticifolia. Common.

Order 55. LABIATÆ.

1. TRICHOSTEMA.

dichotomum. Frequent.

2. MENTHA.

VIRIDIS. Common.
PIPERITA. Common.
ARVENSIS. Rare. East Meriden. July 16, 1883. In bloom.
Canadensis. Common.
SATIVA. Common.

*Not catalogued by Gray, Torrey, or Wood.—EDITORS.

3. LYCOPUS.

Europæus. Common in marshy land. Near Black Pond, etc.
var. sinuatus. Lot West side of Pleasant street, South of Mr. Lounsbury's.

4. PYCNANTHEMUM.

incanum.
muticum. Common.
lanceolatum. Northeast part of town. July 27, 1883.
linifolium.

5. THYMUS.

SERPHYLLUM. Abundant in the new cemetery, Southwest of city.

6. CALAMINTHA.

Clinopodium. West mountain. June 23, 1883.

7. HEDEOMA.

pulegioides. Frequent.

8. COLLINSONIA.

Canadensis. Common.

9. MONARDA.

didyma. Escaped from cultivation.
fistulosa. Escaped from cultivation.
punctata.

10. NEPETA.

CATARIA. Common.
GLECHOMA. In damp waste places. Probably escaped from cultivation.

11. BRUNELLA.

vulgaris. Common.

12. SCUTELLARIA.

saxatilis.
galericulata. August 13, 1882. Common.
parvula.
lateriflora. South of city. August 13, 1882.

13. LEONURUS.

CARDIACA. Common in waste places.

14. MARRUBIUM.

VULGARE.

15. GALEOPSIS.

TETRAHIT.

16. LAMIUM.

AMPLEXICAULE. In cultivated grounds.

MACULATUM.* In cultivated grounds.

Order 56. BORRAGINACEÆ.

1. SYMPHYTUM.

OFFICINALE. Escaped from cultivation. Rare.

2. MYOSOTIS.

palustris.

laxa. Ascent to West Peak. June 23, 1883.

3. CYNOGLOSSUM.

OFFICINALE. Common in East Meriden. June, 1881.

Morisoni. East part of town.

Order 57. HYDROPHYLLACEÆ.

1. PHACELIA.

viscida. A single plant appeared in the garden of Miss H. E. Bradley. Blossomed the latter part of July. Had the odor of *Geranium Robertianum*, and flowers the color of those of *Geranium maculatum*, with whitish center.

Order 58. CONVOLVULACEÆ.

1. CALYSTEGIA.

sepium.

2. CUSCUTA.

Gronovii. Sprouts in the ground, attaches itself to Jewel weed, etc.

tenuiflora.

Order 59. SOLANACEÆ.

1. SOLANUM.

DULCAMARA. Thirty-three white seeds in oval berry. Pedicels 3 or 4.
Peduncle $1\frac{1}{2}$ inches.

NIGRUM.

2. LYCIUM.

VULGARE. Escaped from cultivation.

*Not catalogued by Gray, Torrey, or Wood.—EDITORS.

3. **PHYSALIS.**

pubescens. Pratt street. Meriden. September 22, 1881.

4. **DATURA.**

STRAMONIUM.

Order 60. **GENTIANACEÆ.**

1. **GENTIANA.**

crinita. October 3, 1881.

Andrewsii. Common. October 3, 1881.

Order 61. **APOCYNACEÆ.**

1. **APOCYNUM.**

androsæmifolium.

cannabinum. Field on Cook avenue. June, 1883. Some specimens 6 feet in height.

Order 62. **ASCLEPIADACEÆ.**

1. **ASCLEPAIS.**

Cornuti. Common.

phytolaccoides. Woods South of city. June 29, 1883.

purpurascens.

quadrifolia. Thorp's woods. East part of town. 1881.

parviflora. Flowers flesh colored.

variegata.

ovalifolia.

panpercula.

incarnata. var. **PULCHRA.**

tuberosa.

verticillata. Road to Yalesville. June 30, 1883.

2. **PERIPLOCA.**

GRÆCA. Found by Miss Derby.

Order 63. **OLEACEÆ.**

1. **FRAXINUS.**

Americana.

DIVISION III. APETALOUS EXOGENOUS PLANTS.

Order 64. ARISTOLOCHIACEÆ.

1. ASARUM.

Canadense. Woods South of Black Pond.

2. ARISTOLOCHIA.

Serpentaria. Rare.

Order 65. PHYTOLACCACEÆ.

1. PHYTOLACCA.

decandra.

Order 66. CHENOPODIACEÆ.

1. CHENOPODIUM.

HYBRIDUM.
ALBUM.

Order 67. AMARANTACEÆ.

1. AMARANTUS.

RETROFLEXUS.
ALBUS.

Order 68. POLYGONACEÆ.

1. POLYGONUM.

Pennsylvanicum.

PERSICARIA. Common.

Hydropiper.

aviculare.

var. erectum. Very common.

arifolium. Southeast of Black Pond. October, 1881.

sagittatum. In low places.

Virginianum.

cilinode. On rock Southeast of Black Pond. October, 1881.

CONVOLVULUS.

dametorum. var. **scandens.** August, 1882. Common.

2. FAGOPYRUM.

ESCULENTUM.

3. RUMEX.

CRISPUS.

OSTUSIFOLIUS.

ACETOSELLA.

Order 69. **LAURACEÆ.**

1. SASSAFRAS.

officinale.

2. LINDERA.

Benzoin. Common.

Order 70. **SANTALACEÆ.**

1. COMANDRA.

umbellata. June 1, 1881. Frequent.

Order 71. **EUPHORBIACEÆ.**

1. EUPHORBIA.

maculata. Common.

dentata.

CYPARISSIAS. Escaped from cultivation.

LATHYRIS. Sparingly escaped from gardens.

hypericifolia. Common.

2. ACALYPHA.

Virginica.

Order 72. **URTICACEÆ.**

1. ULMUS.

fulva.

Americana.

2. MORUS.

rubra. Rare.

ALBA. Rare. Probably escaped from cultivation.

3. URTICA.

DIOICA. Near Parker's shop, East part of town. September 4, 1882.

4. LAPORTEA.

Canadensis.

5. PILEA.

pumila.

6. PARIETARIA.

Pennsylvanica.

7. HUMULUS.

Lupulus. Rare.

8. BÆHMERIA.

cylindrica. East part of town. July 16, 1883.

Order 73. PLATANACEÆ.

1. PLATANUS.

occidentalis.

Order 74. JUGLANDACEÆ.

1. JUGLANS.

cinerea.

2. CARYA.

alba.
porcina.
amara.

Order 75. CUPULIFERÆ.

1. QUERCUS.

alba.
Prinus.
ilicifolia. Summit of West Peak. June 23, 1883.
rubra.
palustris.

2. CASTANEA.

vesca. Common.

3. FAGUS.

ferruginea.

4. CORYLUS.

rostrata. Very common.

5. CARPINUS.

Americana. Very common.

6. OSTRYA.

Virginica. Somewhat rare.

Order 76. MYRICACEÆ.

1. MYRICA.

cerifera. June 1, 1881. East part of town.

2. COMPTONIA.

asplenifolia. Common.

Order 77. BETULACEÆ.

1. BETULA.

lenta.

alba, var. *populifolia*. Leaves doubly serrate. In bloom May 14, 1883.
excelsa, Ait.

2. ALNUS.

serrulata.

incana.

Order 78. SALICACEÆ.

1. SALIX.

tristis. Anthers reddish. Scales black. Middle flowers expanding first.
April, 1883.

Muhlenbergiana, (Torrey). The earliest willow in bloom. Woods south
of Crown street. April, 1883. Staminate flowers open from
apex downward.

sericea. (Two ovaries sessile on a common stipe.). Also a *forma mon-*
strosa. (Marsh.). Stream in woods near Glass Works.

discolor. Fertile catkins $3\frac{1}{2}$ inches long. May 10, 1883. Northwest of
Trotting Park.

PURPUREA.

rostrata. Richardson. *livida* of Gray.

ALBA. First lvs. entire. Later serrulate. Twigs green. East Meriden.
May 14, 1883.

var. *vitellina*. (*S. vitellina* of Torrey.). Willow Hill, East part of
town. May 14 in bloom.

nigra.

lucida. May 24, 1881.

livida. Scales yellowish green, as also stamens, anthers and filaments.
Beautiful.

var. *occidentalis*. Woods Northwest of Trotting Park. May 10, 1883.

cordata.

FRAGILIS. May 24, 1881.

BABYLONICA. Rare, save in cultivation.

2. POPULUS.

tremuloides.

grandidentata. Common.

balsamifera. East part of town, Middletown road. near Mrs. James Perkins' house

var. **candicans.** Near houses. Stigma much dilated.

SUBCLASS II. GYMNOSPERMÆ.

Order 79. CONIFERÆ.

1. PINUS.

rigida.

Strobus.

2. ABIES.

Canadensis.

3. TAXUS.

baccata. var. **Canadensis.** Near rocks, Southeast shore of Black Pond. 1882.

**CLASS II. MONOCOTYLEDONOUS OR ENDOGENOUS
PLANTS.**

Order 80. ARACEÆ.

1. ARISÆMA.

triphyllum. Rather common. May 19, 1883.

2. SYMPLOCARPUS.

foetidus. Common.

3. ACORUS.

Calamus. Common.

Order 81. TYPHACEÆ.

1. TYPHA.

latifolia.

2. SPARGANIUM.

simplex.

Order 82. ALISMACEÆ.

1. ALISMA.

Plantago. var. **Americanum.** Leaves ovate. Common

2. SAGITTARIA.

variabilis. Common.

Order 83. ORCHIDACEÆ.

1. ORCHIS.

spectabilis. Spur $\frac{1}{4}$ inch shorter than the ovary. A single spm. from Mrs.
Cone, East part of town May 21. 1883.

flava. (Lindl. *Platanthera flava*, etc.) 1881.

2. HABENARIA.

orbiculata. Cat Hole, Mrs. Knapp. August 19, 1883. Not in flower.

lacera. Rare.

pyscodes. Rare.

virescens. Rare.

peramoena. Rare.

3. GOODYERA.

pubescens. Frequent.

4. SPIRANTHES.

Romanzoviana.

cernua. Frequent.

5. ARETHUSA.

bulbosa. East part of town. Also in South Meriden. 1881 and 1882. Rare.

6. POGONIA.

ophioglossoides. East Meriden. July 4, 1881. Also 1882 and 1883.

verticillata. Found by Mrs. Knapp, 1883.

7. LIPARIS.

liliifolia. One specimen found on descent from West Peak. June 23, 1883.

8. CORALLORHIZA.

multiflora. August, 1883.

9. CYPRIPEDIUM.

pubescens. Woods near Poor House. Rare.

parriflorum. East part of town, near Mrs. Thorp's. Rare.

acaule.

10. CALOPOGON.

pulchellus. East Meriden, 1881, '82 and '83. July.

Order 84. AMARYLLIDACEÆ.

1. HYPOXYS.

erecta.

Order 85. IRIDACEÆ.

1. IRIS.

versicolor.

2. SISYRINCHIUM.

Bermudiana.

Order 86. SMILACEÆ.

1. SMILAX.

rotundifolia. Common.

glauc.

herbacea. June 12, 1881.

Order 87. LILIACEÆ.

1. TRILLIUM.

~~ceratum~~. Northeast part of city. Woods.

~~erectum~~. Lowlands near streams.

2. MEDEOLA.

~~Virginica~~. East of Black Pond.

3. VERATRUM.

~~viride~~.

4. UVULARIA.

~~perfoliata~~. Common.

~~sessilifolia~~. Common.

5. STREPTOPUS.

~~amplexifolius~~. Woods near Hemlock Grove. June, 1883, in seed.

6. SMILACINA.

~~racemosa~~.

~~stellata~~. Rare.

~~bifolia~~. Common. One spm. had the lower leaf briefly petioled, and the upper somewhat clasping.

7. POLYGONATUM.

~~biflorum~~. Common.

~~MULTIFLORUM~~ Occasional.

8. LILIUM.

~~Philadelphicum~~.

~~Canadense~~.

~~Catesbæi~~.

9. ERYTHRONIUM.

~~Americanum~~. Common.

10. ORNITHOGALUM.

~~UMBELLATUM~~.

11. ALLIUM.

~~tricoccum~~. Near Black Pond, East side.

~~Canadense~~. Brookside West of Trotting Park. May 29, 1883.

Order 88. MELANTHACEÆ. (Torrey.)

1. HELONIAS.

~~bullata~~.

2. CHAMÆLIRIUM.

luteum. Cat Hole Pass. Mrs. Knapp. August 19, 1883.

Order 89. JUNCACEÆ.

1. LUZULA.

campestris. Common. One species (variety?) is *cæspitose*, about 6 inches in height, has broad lance-linear leaves from 2 to 5 inches long, very hairy, spikes chestnut colored, leaves very purplish at base. Another variety (?) has narrowly linear leaves, is smooth except where the lvs. and bracts join the stem, yellowish spikes and light bluish-green leaves.

2. JUNCUS.

effusus.

- tennis*. Some capsules were dotted in rows on the margins. Sepals a little longer than the capsule. In fruit, August 4, 1882.

Order 90. PONTEDERIACEÆ.

1. PONTEDERIA.

cordata. Common.

Order 91. ERIOCAULONACEÆ.

1. ERIOCAULON.

septangulare. Black Pond. August 19, 1883.

Order 92. CYPERACEÆ.

1. CYPERUS.

diandrus.
phymatodes.
strigosus.

2. DULICHIMUM.

spathaceum.

3. ELEOCHARIS.

tennis. June 20, 1883.
palustris. June 30, 1883.
obtnsa. July.

4. SCIRPUS.

polyphyllus.
Eriophorum.

5. RHYNCHOSPORA.

glomerata.

6. CAREX.

ulpinoides. (Gray.).

sparganioides.

scoparia. Achenium stalked and crowned with the long continuous style.

intumescens.

debilis.

triceps.

crinita.

stellulata. Nerves of perigynia distinct.

hystrixina.

folliculata.

virescens.

retroflexa.

lupulina.

Pennsylvanica. Common in woods. April--July.

digitalis. Scales white at first, tawny later, with green keel and mucronate point, falling or broken off early.

vestita.

tentaculata. Two capsules at summit of staminate spike. May 29, 1883
Southwest of park.

stipata. Spms. with anthers *very fragrant* when dry. Marshes. May 9, 1883.

Order 93. GRAMINEÆ.

1. LEERSIA.

oryzoides. Brookside, East Meriden September 4, 1882. Common.

2. PHLEUM.

PRATENSE. Common.

3. AGROSTIS.

vulgaris. Common.

alba.

4. CINNA.

arundinacea.

5. MUHLENBERGIA.

Mexicana. Troublesome in some old gardens. September 3, 1883.

diffusa.

6. DACTYLIS.

GLOMERATA. Common.

